

Description of Additional Supplementary Files

Supplementary Data 1 A list of total differential proteins in MVs between EBV+ GC and EBV- GC. 4D-label free quantitative proteomics analysis for the isolated MVs (left). 133 downregulated proteins and 43 upregulated proteins with >1.5 fold of change are listed. *, Differential expression analysis was performed using the DESeq2 R package. The p values were adjusted using the Benjamini & Hochberg method.

Supplementary Data 2 A list of top 14 upregulated proteins in MVs between EBV+ GC and EBV- GC. 4D-label free quantitative proteomics analysis showing the top 14 upregulated proteins in EBV+ GC MVs. *, The differential regulated proteins were analyzed by two tailed unpaired t-test.

Supplementary Data 3 A list of differential genes in EBV-infected HGC-27 cells. RNA-seq analysis showing differential expression genes in EBV-infected HGC-27 cells. *, Differential expression analysis was performed using the DESeq2 R package. The p values were adjusted using the Benjamini & Hochberg method.

Supplementary Data 4 Clinical relevance of OLFM4 in GC. IHC microarray analysis showing that the proximal GC is predisposed to high expression of OLFM4. *, Chi-square test is used to compare the difference between two categorical variables. $p < 0.05$ was considered to indicate a significant difference.

Supplementary Data 5 A list of total identified proteins in ctrl MVs. Mass spectrometry analysis showing the levels of the identified proteins in the control (ctrl) MVs.

Supplementary Data 6 A list of total identified proteins in OLFM4-overexpressing MVs. Mass spectrometry analysis showing the levels of the identified proteins in OLFM4-overexpressing MVs.

Supplementary Data 7 A list of differential genes in OLFM4 MVs-treated HGC-27 cells. RNA-seq analysis showing differential expression genes in OLFM4 MVs-treated HGC-27 cells. *, Differential expression analysis was performed using the DESeq2 R package. The p values were adjusted using the Benjamini & Hochberg method.

Supplementary Data 8 A list of used antibodies and reagents. The detailed information and diluted ratio of antibodies and reagents are listed.